## **ABSTRACT**

Thermostable alkaline phosphatase enzymes derived from bacteria from the genus Ammonifex, Aquifex, Archaeoglobus, Desulfurococcus, Methanococcus, Thermotogales, Pyrolobus, Pyrococcus, and Thermococcus organisms are disclosed. The enzymes are produced from native or recombinant host cells and can be utilized in the pharmaceutical, food, detergent, and baking industry.